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This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by the following method in Microsoft Word:

Display the FILE tab on the ribbon, click OPTIONS, then DISPLAY. Select of deselect HIDDEN TEXT.

This guide specification section has been prepared by Forster Profile Systems for use in the preparation of a project specification section covering fixed stainless steel windows. These systems are thermally broken and can be non-fire-rated or fire-rated. Refer to Forster Profile Systems literature for additional information.

The following should be noted in using this specification:

Hypertext links to manufacturer websites are included after manufacturer names to assist in product selection and further research. Hypertext links are shown in blue text, e.g.:

[www.forster-profile.ch](http://www.forster-profile.ch)

Optional text requiring a selection by the user is enclosed within brackets and shown in red text, e.g.: Color: [Red.] [Black.]"

Items requiring user input are enclosed within brackets and shown in red text, e.g.: "Section [\_\_ \_\_ \_\_ - \_\_\_\_\_\_\_\_]."

Metric units of measure are shown in purple text after inch/pound measurements, e.g.: 0.01 inch (0.3 mm). Delete either inch/pound or metric units.

Optional paragraphs are separated by an "OR" statement shown in red text, e.g.:

\*\*\*\* OR \*\*\*\*

For assistance in the use of products in this section, contact Forster Profile Systems by calling 206-890-9194 or visit their website at [www.forster-profile.ch](http://www.forster-profile.ch).

This specification has been prepared based on SimpleSpecs™ specification templates. The SimpleSpecs™ Master Guide Specification system comprises a full architectural master specification that can be used to specify all project requirements. For additional information on SimpleSpecs™ products visit the ZeroDocs.com website at www.zerodocs.com.

**SECTION 08 51 19.01 – FIXED STAINLESS STEEL WINDOWS**

1. **GENERAL**
   1. SUBMITTALS
      1. Action Submittals:
         1. Shop Drawings:
            1. Include plans, elevations, and details.
            2. Show provision for expansion and contraction, anchorage details, member profiles, and weep drainage provisions.
            3. Designate materials and finishes.
            4. Indicate glass types and glazing details.
         2. Product Data: Manufacturer’s descriptive data and product attributes for windows.
         3. Samples: [12 x 12] [\_\_ x \_\_] inch (300 x 300 mm) window corner samples.
      2. Informational Submittals:
         1. Certificate of Compliance: Certification that installed products meet specified design and performance requirements.
   2. SYSTEM DESCRIPTION
      1. Windows: AAMA/WDMA/CSA 101/I.S.2/A440, Class CW-PG90.
      2. Design Requirements:
         1. Design wind pressure: In accordance with [ASCE 7.] [Building Code.] [\_\_\_\_.]
         2. Movement: Ambient temperature range of [120] [\_\_] degrees F ([49] [\_\_] degrees C) and a surface temperature range of [160] [\_\_] degrees F of ([71] [\_\_] degrees C).
         3. System design to be performed by qualified professional engineer licensed in State of [\_\_\_\_].
      3. Performance Requirements:
         1. Air infiltration: 0.2 CFM/sf (0.1 L/s/sq m), tested to ASTM E283/E283M at static air pressure differential of 6.27 PSF (300 Pa).
         2. Water penetration resistance: No leakage, tested to ASTM E331 and ASTM E547 at 12.11 PSF (580 Pa).
         3. Uniform load deflection: 0.01 inch (0.3 mm) deflection, tested to ASTM E330/E330M at 90.23 PSF (4320 Pa) positive and negative with load applied on jamb and held for 10 seconds.
         4. Uniform load structural: 0.01 inch (0.3 mm) permanent set, tested to ASTM E330/E330M at 135.34 PSF (6480 Pa) positive and negative with load applied on jamb and held for 10 seconds.
         5. Forced entry resistance: Type D, Grade 40, tested to ASTM F588.
   3. QUALITY ASSURANCE
      1. Fabricator/Installer Qualifications:
         1. Firm specializing in work of this Section with minimum [2] [\_\_] years’ experience.
         2. Approved by window system manufacturer.

Retain the following for burglar resistant windows.

* + 1. Security Rated Assemblies: Class RC3, tested to EN1627.
    2. Mockup: [One full-size window.] [\_\_\_.] Approved mockup [may] [may not] remain as part of the Work.
  1. WARRANTIES
     1. Fabricator/Installer’s [2] [\_\_] year warranty against water leakage through curtain wall system.

1. **PRODUCTS**
   1. MANUFACTURERS

Utilize Unico for windows with a thermal break, burglary resistance, and bullet resistance.

Unico HI provides a higher thermal value.

Unico XS provides slim profiles with excellent thermal insulation but does not offer fire or security assemblies.

* + 1. Contract Documents are based on [Unico] [Unico HI] [Unico XS] by Forster Profile Systems. [www.forster-profile.ch](http://www.forster-profile.ch)
    2. Substitutions: [Refer to Division 01.] [Not permitted.]
  1. MATERIALS

Type 316 provides higher corrosion resistance and is available upon request.

* + 1. Stainless Steel: ASTM A666, Type [304.] [316.]

Coordinate glass with Section 08 80 00. Note that fire, ballistic, and security rated assemblies require glass types that are approved per the system test assemblies. Verify glass requirements for all assemblies with Forster Profile Systems.

* + 1. Glass and Glazing Accessories: Specified in Section 08 80 00.
  1. ACCESSORIES
     1. Anchors: Type [304] [316] stainless steel.
  2. FABRICATION
     1. Mullion Profile: 2.76 inches (70 mm) deep x [1.97] [2.76] [3.54] inch ([50] [70] [90]) mm face width for fixed glazing on both side of mullion.
     2. System Assembly:
        1. Glazing method: Inside glazed.
        2. Thermally insulated system fabricated by welded and/or slotted arrangement based on size, application, use, or fabricators recommendation.
  3. FINISHES

No. 8 mirror polished finish is available on special request.

* + 1. Stainless Steel: NAAMM AMP 503; [No. 4 satin.] [No. 8 mirror polished.] [\_\_\_\_.]

1. **EXECUTION**
   1. INSTALLATION
      1. Install in accordance with manufacturer's instructions and approved Shop Drawings.
      2. Install glass as specified in Section 08 80 00.
      3. Installation Tolerances:
         1. Maximum variation from plumb or level: [1/8] [\_\_] inch in 3 feet (3 mm/m) or [1/4] [\_\_] inch in any 10 feet 6 mm/3 m), whichever is less.
         2. Maximum misalignment of members abutting end to end: [1/32] [\_\_] inch (0.8 mm).
         3. Sealant space between system and adjacent construction: In accordance with sealant manufacturer’s instructions with consideration for sealant expansion coefficient.

END OF SECTION